

INFORMATION DISCLOSURE CITATION <small>(Use Several sheets if necessary)</small>		Docket Number 135992010-045		Application Number 09/990,678	
		Applicant(s) Michael Lindsay Bell et al.			
		Filing Date November 14, 2001		Group Art Unit 1743 TC 1700	

U.S. PATENT DOCUMENTS							
EXAMINER INITIALS	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JP</i> <i>1</i>	A	5,573,909	12/12/96	Singer et al.	435	6	
	B	6,027,709	02/22/00	Little et al.	424	1.65	
	C	6,028,190	02/22/00	Mathies et al.	536	26.6	
	D	6,130,094	10/10/00	Waggoner et al.	436	63	
<i>2</i>	E	4,772,561	09/20/88	Genshaw	436	169	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>JP</i> <i>OP</i>	L	EP 0 609 894 A2	08/10/94	EPO				
	M	EP 0 670 374 A1	09/06/95	EPO				
	N							
	O							
	P							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
	Q	
	R	
	S	

EXAMINER <i>D.82</i>	DATE CONSIDERED <i>3-9-04</i>
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,585,241	12/17/96	Lindmo			
	B	5,571,388	11/5/96	Patonay et al.			
	C	6,159,748	12/12/00	Hechinger			
	D	4,661,913	4/28/87	Wu et al.			
	E	5,162,863	11/10/92	Ito			
	F	4,745,285	5/17/88	Recktenwald et al.			
	G	5,028,545	7/02/91	Soini			
	H	5,880,474	3/9/99	Norton et al.			
	I	5,682,038	10/28/97	Hoffman			
	J	5,627,040	5/6/97	Bierre et al.			
	K	5,736,330	4/7/98	Fulton			

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	L	WO 99/37814	7/29/99				
	M	WO 99/19515	4/22/99				
	N	EP 0 670 374	05/13/98				
	O	EP 0 753 584	7/5/96				
	P						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Q Strekowski, Lucjan, <i>Substitution Reactions of a Nucleofugal Group in Heptamethine Cyanine Dyes. Synthesis of an Isothiocyanate Derivative for Labeling of Proteins with a Near-Infrared Chromophore</i> , J. Org. Chem. 57, 4578-4580 (1992)
	R Slominskii, Y.L., <i>Polymethine Dyes with Hydrocarbon Bridges, Enamino Ketones in the Chemistry of Cyanine Dyes</i> , Journal of Organic Chemistry of the USSR, Vol. 19, No. 10, pp. 2134-2142 (1983)
	S Strekowski, Lucjan, <i>Facile Derivations of Heptamethine Cyanine Dyes</i> , Synthetic Communications, 22(17), 2593-2598 (1992)

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P	A	2,887,479	5/19/59	Heseltine			
	B	2,895,955	7/21/59	Heseltine et al.			
	C	4,325,706	4/20/82	Gershman et al.			
	D	4,499,052	2/12/85	Fulwyler			
	E	4,729,947	3/8/88	Middendorf et al.			
	F	4,839,265	6/13/99	Ohno et al.			
	G	4,933,269	6/12/90	Parton et al.			
	H	5,037,734	8/6/91	Lenhard et al.			
	I	5,061,618	10/21/91	Parton et al.			
	J	5,207,880	5/4/93	Middendorf et al.			
P	K	5,268,486	12/7/93	Waggoner et al.			

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							YES	NO
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OTHER ART: (Including Author, Title, Date, Pertinent Pages, Etc.)	
P	Q Slominskii, Y.L., <i>Tricarbocyanines with Hydrogen Rings in the Chromophore</i> , Journal of Organic Chemistry of the USSR, Vol. 40, NO. 6, pp. 625-628 (1974)
P	R Arnold, Z., <i>Synthetic Reactions of Dimethylformamide. XXII. Formation and Preparation of Formyl Derivatives of Indene</i> , Collection Czechoslov. Chem. Commun., Vol. 30, 2783-2792 (1965)
P	S Reynolds, G.A., <i>Stable Heptamethine Pyrylium Dyes That Absorb in the Infrared</i> , J. Org. Chem., Vol. 42, No. 5, 885-888 (1977)

EXAMINER J. P.	DATE CONSIDERED 3-9-04
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Jr	A	5,312,921	5/17/94	Glazer et al.			
	B	5,321,130	6/14/94	Yue et al.			
	C	5,366,603	11/22/94	Middendorf et al.			
	D	5,375,606	12/27/94	Slezak et al.			
	E	5,410,030	4/25/95	Yue et al.			
	F	5,556,959	9/17/96	Brush et al.			
	G	5,571,388	11/5/96	Patonay et al.			
	H	5,747,349	5/5/98	van den Engh et al.			
	I	5,808,044	9/15/98	Brush et al.			
	J	5,986,086	11/16/99	Brush et al.			
	K	6,048,982	4/11/00	Waggoner			
L	4,882,265	11/21/89	Lagaanis et al.				

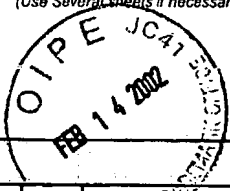
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
Jr	Q Sosnovskii, G.M., <i>Synthesis of Meso-Substituted Tricarbocyanine Dyes With An Ortho-Phenylene Bridge In The Chromophore</i> , Journal of Organic Chemistry of the USSR, Vol. 19, No. 10, 1861-1864 (1983)
Op	R Makin, S.M., <i>Aminoformylation of Unsaturated Aldehydes 2-Alkoxyaldehydes and Their Acetals, and Keytones of the Alicyclic Series</i> , Journal of Organic Chemistry of the USSR, Vol. 13, No. 6, 1093-1096 (1977)
Op	S Webb, J.P., <i>Sixteen New Infrared Laser Dyes Excited By A Simple Linear Flashlamp</i> , Eastman Organic Chemical Bulletin, Vol. 46, No. 3, 1-6 (1974)

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20	A	4,973,572	11-27-90	DeBoer			
	B						
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							YES	NO
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	M							
	N							
	O							
	P							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
20	Q	Russian reference by Tolmachev et al. (full cite is in Russian)
20	R	Narayanan, N., <i>A New Method for the Synthesis for Heptamethine Cyanine Dyes: Synthesis of New Near-Infrared Fluorescent Labels</i> , J. Org. Chem. 60, 2391-2395 (1995)
20	S	Strekowski, L., <i>Functionalization of Near-Infrared Cyanine Dyes</i> , Heterocyclic Chem., 33, 1685-1688 (1996)

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							YES NO
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Q	Narayanan, N.,	New Near Infrared Dyes for Applications in Bioanalytical Methods, SPIC Vol. 2388, 6-15 (1995)
R	Pierce, Brian M.,	Lasing Properties of Several Near-IR Dyes for a Nitrogen laser-Pumped Dye Laser with an Optical Amplifier, IEEE Journal of Quantum Electronics, Vol. QE-18, No. 7 (1982)
S		

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